80-H (1978)

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3430 BIOLOGICAL EVALUATION R4-80-4

SAWTOOTH NATIONAL FOREST TWIN FALLS RANGER DISTRICT 1978

Rating Lodgepole Pine Stands for Mountain Pine Beetle Hazard

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Twin Falls Ranger District Sawtooth National Forest

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INTRODUCTION

Mountain pine beetle is the major cause of mortality to large diameter lodgepole pine. Relating to timber production the method of reducing mountain pine beetle losses in unmanaged old growth stands is to place those stands under management. This is the land managers basic problem and will continue to be until the land base for commercial timber production is determined and the first logging entry accomplished. Management would possibly mean those alternatives shown in (1) "Guidelines for reducing losses of lodgepole pine to the mountain pine beetle in unmanaged stands in the Rock Mountains," Amman, et al., and (2) "Management of lodgepole pine to reduce losses from the mountain pine beetle," Safranyik, et al.

RISK RATING METHODS

Within lodgepole pine stands the five factors of elevation, latitude, tree age, diameter and phloem thickness are considered for indicating risk to mountain pine beetle infestation. On the Cassia Division lodgepole pine stands occur essentially at the same latitude, are within a 1,000 foot elevational range, are relatively old age, and contain relatively thick phloem. Therefore, as other factors are similar, risk has been assigned on the basis of diameter (dbh) alone. This is the most meaningful parameter relating to risk and one that is attained during normal timber cruising so these data are available without additional measurements for risk rating lodgepole pine stands in sequence for priority logginguitilization management.

Average diameter, considering trees 5" dbh and larger, of lodgepole pine in all sawtimber stands within all compartments on the Cassia Division were computed from compartment inventory data and each stand was risk rated for mountain pine beetle damage potential in the attached table pages 1 through 13.

Compartment #049 is used as an example to illustrate a priority logging sequence by stands within the compartment, Figure 1. Stands numbered 27 and 81 are very high risk (red) and would be cut first or along with high risk stands 4, 6, 11, 18, 23, 24, 28, 30, 33, 37, 40, 45, 46, 60, 65, 66 and 68 (yellow). Moderate (blue) and low-risk stands (green) could be stored on the stump for future management.

LODGEPOLE PINE DWARF MISTLETOE

Dwarf mistletoe infection levels should be used along with beetle risk levels to choose logging priorities. These ratings can in most cases be determined from compartment exam cruise data.

Table 1. Lodgepole Pine Risk Ratings of Cassia Division Stands by DBH.

Key ((Risk	Level)
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dbh	ri	risk rating			
5.0 - 6.9"	0	LOW			
7.0 - 8.9"	1	MODERATE			
9.0 - 12.9"	2 & 3	HIGH			
13.0 - 14.9"	4	VERY HIGH			
> 15.0"	5	EXTREME			

1 (Moderate) cont'd...

COMPARTMENT #001		(COMPAR	TMENT	#002)	COMPAR	RTMEN"	Г #004
Stand 43 05 47 50 03 27 54 07 14 18 26 53	Risk Rating 5 (Extreme) 4 (Very High) 4 (Very High) 4 (Very High) 3 (High) 3 (High) 3 (High) 2 (High) 2 (High) 2 (High) 2 (High) 2 (High) 2 (High)	Stand 35 39 47 50 55 57 65 12 36 52 67	Risk 1 1 1 1 1 0 0		Stand 25 04 43 44 49 51 63 05 10 18 26 27	4 3 3 3 3 3 3 2 2 2 2	
04	1 (Moderate)	COMPAR	TMENT	#003	39	2	(High)
72 02 10	1 (Moderate) 0 (Low) 0 (Low)	Stand 13 04	Risk 5 4	Rating (Extreme) (Very High)	42 46 50 56	2 2 2 2	(High) (High) (High) (High)
COMPA	RTMENT #002	12 41	<u>4</u>	(Very High)	65 01	2	(High)
Stand	Risk Rating	05	3	(Very High) (High)	01 08	1 1	(Moderate) (Moderate)
26	4 (Very High)	36 40	3 3	(High) (High)	09		(Moderate)
11	3 (High)	44	3	(High)	15 16		(Moderate) (Moderate)
14	3 (High)	55	. 3	(High)	29		(Moderate)
15	3 (High)	09	2	(High)	33		(Moderate)
25	3 (High)	24	2	(High)			(Moderate)
27	3 (High)	33	2	(High)	45		(Moderate)
38	3 (High)	34	2	(High)	47		(Moderate)
44	3 (High)	47	2	(High)	48		(Moderate)
05 4.6	2 (High)	03	1	,	52	1	(Moderate)
16 10	2 (High)	35		(Moderate)	53	1	(Moderate)
18	2 (High)	43		(Moderate)	60	1	(Moderate)
23	2 (High)	46		(Moderate)	03	0	(Low)
24 28	2 (High)	51	1	(Moderate)	11	0	(Low)
26 29	2 (High) 2 (High)	53	1	(Moderate)	17	0	(Low)
45	. 5 .	54	1	(Moderate)	64	0	(Low)
49	2 (High) 2 (High)	01	0	(Low)			
51	2 (High)	02	0	(Low)			
61	2 (High)	10	0	(Low)			
62	2 (High)	23	0	(Low)			
63	2 (High)	42 50	0	(Low)			
10	1 (Moderate)	52 56	0	(Low)			
17		56	0	(Low)			
19	1 (Moderate) 1 (Moderate)						
20	,						
22	_ ,,,						
30							
	1 (Moderate)						
3п 33	1 (Moderate)						

COMPARTMENT #005

COMPARTMENT #006

(COMPARTMENT #007)

			(COMPA	KIMENI #00/)
Stand	Risk Rating	Stand Risk Rat	ing Stand	Risk Rating
02	4 (Very High)		gh) 55	3 (High)
80	4 (Very High)		lgh) 56	3 (High)
64	4 (Very High)		(gh) 85	3 (High)
05	3 (High)	•	gh) 01	2 (High)
- 15	3 (High)	•	gh) 07	<u> </u>
16	3 (High)		lgh) 22	
17 ·	3 (High)	,	lgh) 23	2 (High)
18	3 (High)	•	T	2 (High)
19	3 (High)	· ·		2 (High)
21	3 (High)	•		2 (High)
07	2 (High)	•		2 (High)
10	2 (High)	-		2 (High)
12	2 (High)	•	derate) 69	2 (High)
13	2 (High)	'	derate) 70	2 (High)
14	2 (High)		derate) 78	2 (High)
29		· ·	derate) 81	2 (High)
33			derate) 84	2 (High)
45	, o <i>,</i>		derate) 40	1 (Moderate)
	, <u>o</u> ,		derate) 41	1 (Moderate)
46 50	2 (High)		derate) 44	1 (Moderate)
56	2 (High)		derate) 51	1 (Moderate)
58	2 (High)		derate) 52	1 (Moderate)
77	2 (High)	04 0 (Lo	· · · · · · · · · · · · · · · · · · ·	1 (Moderate)
79	2 (High)	05 0 (Lo	w) 72	1 (Moderate)
03	1 (Moderate)	06 0 (Lo	w) 73	1 (Moderate)
04	1 (Moderate)	07 0 (Lo	w) 95	0 (Low)
06	1 (Moderate)	09 0 (Lo		,,
09	1 (Moderate)	23 0 (Lo	w) COMPAF	RTMENT # 008
11	1 (Moderate)	24 0 (Lo		
20	1 (Moderate)	28 0 (Lo	w) Stand	Risk Rating
23	1 (Moderate)	29 0 (Lo		5 (Extreme)
24	1 (Moderate)	35 0 (Lo		5 (Extreme)
25	1 (Moderate)	37 0 (Lo		5 (Extreme)
35	1 (Moderate)	·	03	4 (Very High)
36	1 (Moderate)	COMPARTMENT #00		3 (High)
38	1 (Moderate)		43	3 (High)
39	1 (Moderate)	Stand Risk Rat		3 (High)
43	1 (Moderate)		treme) 68	3 (High)
49	1 (Moderate)	• •	treme) 70	3 (High)
78	1 (Moderate)		treme) 71	,
01	0 (Low)	· ·	ry High) 18	,
31	0 (Low)	•	ry High) 27	• • • • • • • • • • • • • • • • • • • •
34	O (Low)	•	ry High) 28	· ψ ·
40	0 (Low)	•	· .	2 (High)
41	0 (Low)	·		2 (High)
42	0 (Low)	7 .	= .	1 (Moderate)
48	0 (Low)	- (···	1 (Moderate)
53	0 (Low)	1		1 (Moderate)
54	0 (Low)			0 (Low)
55	0 (Low)	19 3 (Hi		
60	0 (Low)	32 3 (Hi		
00	0 (10%)	35 3 (Hig	gh) :'d	
		CODI	- * * I	

COMPARTMENT	#009	COMPARTMENT	#010	(COMPARTMENT #013)		
15 3 23 3 43 3 46 3 59 3 66 3 06 2 08 2 11 2 26 2 33 2 37 2	Rating (High)	47 5 49 4 50 4 27 2 42 2 43 2 88 2 29 1 30 1 34 1 46 1 82 1	Rating (Extreme) (Very High) (Very High) (High) (High) (High) (High) (Moderate) (Moderate) (Moderate) (Moderate) (Moderate)	Stand 27 29 32 36 44 60 33 34 35 61 COMPAR	Risk Rating 1 (Moderate) 1 (Moderate) 1 (Moderate) 1 (Moderate) 1 (Moderate) 1 (Moderate) 0 (Low) 0 (Low) 0 (Low) 0 (Low) TMENT #014	
94 1	(High) (High) (Moderate) (Low) (Low) (Low) (Low) (Low) (Low) (Low)	64 5 60 4 75 2 01 1 65 1 66 1 71 1 72 0 COMPARTMENT NO LPP EXA THIS TIM COMPARTMENT Stand Risk 42 5 31 4 25 2 38 2 43 2 45 2 55 2 58 2 14 1 19 1	#011 Rating (Extreme) (Very High) (High) (Moderate) (Moderate) (Moderate) (Low) #012 AMINED AT AE. #013 Rating (Extreme) (Very High) (High) (High) (High) (High) (High) (High) (High) (High) (High) (Moderate) (Moderate) (Moderate) (Moderate) (Moderate)	Stand 23 28 49 54 19 32 62 24 36 37 42 47 50 51 56 7 8 59	Risk Rating 4 (Very High) 3 (High) 3 (High) 2 (High) 2 (High) 2 (High) 2 (High) 2 (High) 2 (High) 1 (Moderate)	

COMPAR	TMENT	#015	(COMPAR	TMENT	#016)	(COMPAR	RTMENT #017)
Stand	Risk	Rating	Stand	Risk	Rating	Stand	Risk Rating
11	5		60	2		13	1 (Moderate)
12	5	(Extreme)	13	1	(Moderate)	21	1 (Moderate) 1 (Moderate)
26	4		20	1	(Moderate)	29	
90	4		34		(Moderate)		(/
77	3	(High)	35		(Moderate)	33	1 (Moderate)
81	3	(High)	37	1		40	1 (Moderate)
85	3	(High)	38			43	1 (Moderate)
20	2	(High)		1	• • • • • • • • •	46	1 (Moderate)
24	2	(High)	40	1.	(47	1 (Moderate)
25	2	(High)	41	1.	(Moderate)	50	1 (Moderate)
46	2	(High)	42	1	, ,	51	1 (Moderate)
47	2		44	1	(Moderate)	54	1 (Moderate)
51	2	(High)	52		(Moderate)	56	1 (Moderate)
	.2	(High)	56		(Moderate)	57	1 (Moderate)
55 64		(High)	27		(Low)	59	1 (Moderate)
61	2	(High)	32		(Low)	63	1 (Moderate)
78	2	(High)	33	0	(Low)	69	1 (Moderate)
80	2	· • ·	43	0	(Low)	78	1 (Moderate)
84	2	(High)				01	0 (Low)
27	1	•	COMPAR	TMENT	#017	02	0 (Low)
28	1	•				41	0 (Low)
50	1	(Moderate)	Stand	Risk	Rating	42	0 (Low)
52	1	(Moderate)	30	5	(Extreme)	44	0 (Low)
			37	4	(Very High)	53	0 (Low)
			80	3	(High)	67	0 (Low)
COMPAR'	TMENT	#016	16	3	(High)	76	0 (Low)
			74	3	(High)	, 0	0 (10%)
Stand	Risk	Rating	06	2	(High)	COMPAR	TMENT #018
04	5	(Extreme)	07		(High)	00111 1317	TITILITY IFOTO
01	4	(Very High)	12	2	(High)	Stand	Risk Rating
02	3	(High)	14	2	(High)	58	5 (Extreme)
36	3	(High)	15	2	(High)	12	•
6.3	3	(High)	20	2		15	
64		(High)	31		(High)	17	, ,
06	2	(High)	32	2	(High)		2 (High)
09	2	(High)	36	2	(High)	28	2 (High)
11	2	(High)	39	2	(High)	39	2 (High)
12	2	(High)	55 55			66	2 (High)
1.6	2	(High)	60		(High)	05	1 (Moderate)
18	2	(High)	62		(High)	08	1 (Moderate)
21	2	(High)	66		(High)	16	1 (Moderate)
24	2	(High)			(High)	23	1 (Moderate)
26	2	(High)	68		(High)	24	1 (Moderate)
30	2		71		(High)	27	1 (Moderate)
46		(High)	82		(High)	31	1 (Moderate)
	2	(High)	03		(Moderate)	34	1 (Moderate)
47	2	(High)	04		(Moderate)	59	1 (Moderate)
48	2	(High)	05		(Moderate)	61	1 (Moderate)
51	2	(High) cont'd	09	1	(Moderate) cont'd	71	1 (Moderate) cont'd

Stand Risk Rating Clow 25	(COMPARTMENT #018)	COMPARTMENT #021	(COMPARTMENT #025)		
19					
29		' 25 4 (Very High)	1 0 /		
36	·				
TIMBER STANDS AT 24 1 (Moderate)		COMPARTMENT #022	. 61 2 (High)		
THIS TIME.	36 0 (Low)		62. 2 (High)		
THIS TIME. 24 1 (Moderate)	70 0 (Low)	NO TIMBER STANDS AT	06 1 (Moderate)		
COMPARTMENT # 019	72 0 (Low)	THIS TIME.			
Stand Risk Rating Stand Gompartment #023 52 1 (Moderate)					
Stand Risk Rating Stand Risk Rating 73 1 (Moderate)	COMPARTMENT # 019	COMPARTMENT #023	· · · · · · · · · · · · · · · · · · ·		
Stand Risk Rating Stand Risk Rating 73 1 (Moderate)		·	•		
38	Stand Risk Rating	Stand Risk Rating			
39					
32 3 (High) 87 5 (Extreme) 46 3 (High) 35 4 (Very High) 11 2 (High) 38 4 (Very High) 23 2 (High) 39 3 (High) 29 2 (High) 17 2 (High) 07 4 (Very High) 37 2 (High) 34 2 (High) 17 4 (Very High) 37 2 (High) 34 2 (High) 17 4 (Very High) 41 2 (High) 42 2 (High) 20 3 (High) 43 2 (High) 36 0 (Low) 30 3 (High) 44 2 (High) 36 0 (Low) 30 3 (High) 55 2 (High) 36 0 (Low) 30 3 (High) 58 2 (High) 55 2 (High) 39 3 (High) 61 2 (High) 58 2 (High) 60 2 (High) 61 2 (High) 51 (Moderate) 52 (High) 61 2 (High) 31 1 (Moderate) 519 4 (Very High) 76 3 (High) 35 1 (Moderate) 45 4 (Very High) 76 3 (High) 35 1 (Moderate) 16 2 (High) 02 2 (High) 36 1 (Moderate) 16 2 (High) 02 2 (High) 50 1 (Moderate) 57 1 (Moderate) 56 1 (Moderate) 57 1 (Moderate) 57 1 (Moderate) 51 (High) 60 2 (High) 58 2 (High) 67 3 (High) 42 2 (High) 59 3 (High) 76 3 (High) 45 2 (High) 50 1 (Moderate) 51 (High) 51 2 (High) 50 1 (Moderate) 51 (High) 51 2 (High) 51 2 (High) 52 (High) 53 2 (High) 52 3 (High) 25 2 (High) 46 2 (High) 53 4 (Very High) 67 3 (High) 46 2 (High) 54 2 (High) 25 2 (High) 50 2 (High) 55 3 (High) 27 2 (High) 50 2 (High) 54 2 (High) 38 1 (Moderate) 36 2 (High) 56 2 (High) 54 2 (High) 36 2 (High) 56 2 (High) 55 3 4 (Moderate) 36 2 (High) 56 2 (High) 54 4 5 (High) 5		14 5 (Extreme)	· · · · · · · · · · · · · · · · · · ·		
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21 0 (Low) 41 2 (High) 60 2 (High)		_	3		
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(COMPAR	TMENT #026)	(COMPA	RTMENT	#027)	COMPAR	TMENT #029
Stand	Risk Rating	Stand	Risk	Rating	Stand	Pick Pating
61	2 (High)	33	2	(High)	63	Risk Rating 5 (Extreme)
66	2 (High)	37	2	(High)	04	•
69	2 (High)	39	2	(High)		4 (Very High)
77	2 (High)	44	2	(High)	28	3 (High)
85	2 (High)	49	2	(High)	30	3 (High)
86	2 (High)	57	2	(urgu)	45	2 (High)
08	1 (Moderate)	60		(High)	06	1 (Moderate)
11	1 (Moderate)	65	2 2	(High)		•
35	1 (Moderate)	66	2	(High)		
40	1 (Moderate)	67	2	(High)	COMPAR	TMENT #030
41	1 (Moderate)	70		(High)	_	
49	1 (Moderate)		2	(High)	Stand	Risk Rating
53	1 (Moderate)	71	2	(High)	39	5 (Extreme)
55	1 (Moderate)	72	2	(High)	68	5 (Extreme)
65		77	2	(High)	23	4 (Very High)
71		85	2	(High)	16	3 (High)
	1 (Moderate)	86	2	(High)	35	3 (High).
13	0 (Low)	21	1	(Moderate)	54	3 (High)
27	0 (Low)	25	1	(Moderate)	63	3 (High)
28	0 (Low)	- 26	1	(Moderate)	82	3 (High)
84	Not enough live	28	1	(Moderate)	85	3 (High)
	volume	29	1	(Moderate)	09	2 (High)
		30	1	(Moderate)	13	2 (High)
		34	1	(Moderate)	18	2 (High)
	IMENT #027	36	1	(Moderate)	21	2 (High)
Stand	Risk Rating	43	1	(Moderate)	29	2 (High)
54	5 (Extreme)	56	1	(Moderate)	32	2 (High)
87	5 (Extreme)	62	1	(Moderate)	34	2 (High)
17	4 (Very High)	78		(Moderate)	42	2 (High)
20	4 (Very High)	81		•	43	2 (High)
27	4 (Very High)	82		(Moderate)	53	2 (High)
46 50	4 (Very High)	53		(Low)	55	2 (High)
50	4 (Very High)	80	0	(Low)	56	2 (High)
12	3 (High)				57	2 (High)
15	3 (High)				64	2 (High)
32	3 (High)				65	2 (High)
38	3 (High)	COMPAR	TMENT	<u>#028</u>	74	2 (High)
4 <i>7</i>	3 (High)				02	1 (Moderate)
52	3 (High)	Stand	Risk	Rating	03	1 (Moderate)
63	3 (High)	46	3	(High)	12	1 (Moderate)
74	3 (High)	47	3	(High)	14	1 (Moderate)
79	3 (High)	31	2	(High)	17	1 (Moderate)
06	2 (High)	42		(High)	19	1 (Moderate)
13	2 (High)	59	2	(High)	27	1 (Moderate)
16	2 (High)	70		(High)	28	1 (Moderate)
. 18	2 (High)	77		(High)	30	1 (Moderate)
23	2 (High)	23		(Moderate)	33	1 (Moderate)
24	2 (High)	48		(Moderate)	37	1 (Moderate)
31	2 (High)	60		(Moderate)	38	1 (Moderate)
	cont'd			•	~~	cont'd
	•					

(COMPARTMENT #030)		#030)	(COMPARTMENT #033)			COMPARTMENT #038		
Stand 40 47 49 51 58	Risk 1 1 1 1	(Moderate)	Stand 06 15 COMPAR	2 2	(High)	Stand 22 33 32 14	Risk Rating 5 (Extreme) 5 (Extreme) 4 (Very High 0 (Low)	.)
50 60	1		COMPAN	THENT	7034			
61	1	(Moderate)	Stand	Risk	Rating	COMPAR	TMENT #039	
83		(Moderate)	79	5		CO114 111	CITILITY IFOOD	
84		(Moderate)	65 0.0	3	(High)	Stand	Risk Rating	
90 11		(Moderate) (Low)	36 41	2 2	(High) (High)	80	5 (Extreme)	
÷- ÷-	V	(TOM)	67	1		35	5 (Extreme)	,
					,,	20 29	4 (Very High 4 (Very High	
COMPAR	TMENT	#031				36	4 (Very High	
C+3	בו ביו	D-4-3	COMPAR	TMENT.	#035	48	4 (Very High	
Stand 11	RISK 3	Rating (High)	Stand	Rick	Rating	52	4 (Very High	()
18	3	. 🔾 .	35	5		63	4 (Very High	.)
03		(High)	30	3	(High)	06 47	3 (High) 3 (High)	
25	2	(High)	54	3	(High)	50	3 (High) 3 (High)	
27		(High)	38	2		85	3 (High)	
56		(High)	36	1	(Moderate)	26	2 (High)	
06 07		(Moderate) (Moderate)				28	2 (High)	
10		(Moderate)	COMPAR	TMENT	#036	33	2 (High)	
12		(Moderate)			- 1/	39 56	2 (High) 2 (High)	
13	1	(Moderate)	Stand		Rating	60	2 (High) 2 (High)	
15		(Moderate)	63	3	(High)	69	2 (High)	
17		(Moderate)	74	2	(High)	70	2 (High)	
19 20		(Moderate) (Moderate)	82 83	2	(High) (High)	78	2 (High)	
21		(Moderate)	65	1		79	2 (High)	
24		(Moderate)		_	(,	81 37	2 (High)	
. 26	1	(Moderate)				57 54	1 (Moderate) 1 (Moderate)	
49		(Moderate)	COMPAR	TMENT	#037	80	1 (Moderate)	
08 09		(Low)	Ctand	Diale	Dati-		,	
14		(Low) (Low)	Stand 02		Rating (Extreme)			
_,	J	(2011)	04		(Extreme)	COMPAR	TMENT #040	
			13		(Very High)	Stand	Risk Rating	
COMPAR	TMENT	#032	19	4	·	34	5 (Extreme)	
NO 11	מה מה	T. MITTO	37 55		(Very High)	39	5 (Extreme)	
	PP STA MPARTN	ANDS IN THIS	55 06		(Very High) (High)	49	4 (Very High)
COL	JEVITI	T 1.	11	3		32	3 (High)	
COMPART	IMENT	#033	38		(High)	10	2 (High)	
			16	2	(High)	11 16	2 (High) 2 (High)	
Stand		Rating	48		(High)	23	2 (High)	
03		(Extreme)	17	1	(Moderate)	25	2 (High)	
04 05		(Very High)				31	2 (High)	
US		(High) cont'd				35	2 (High) cont d	
							30110 4.111	_

(COMPARTMENT	#040)	(COMPAR	TMENT	#042)	COMPAR	TMENT #045
Stand Risk	Rating	د ـــد	Dimle	Datifica	Stand	Risk Raitng
	(High)	Stand		Rating		
		05		(High)	10	2 (High)
	_	06	2		13	2 (High)
	(High)	09		(High)	17	2 (High)
	(High)	11		(High)	06	1 (Moderate)
	(High)	20	2	(High)	18	1 (Moderate)
	(High)	21	2	(High)	22	1 (Moderate)
	(High)	22	2	(High)	28	1 (Moderate)
	(Moderate)	24	2	(High)		
07 1	(Moderate)	25		(High)		
21 1	(Moderate)	26		(High)	COMPAR'	TMENT #046
26 1	(Moderate)	01		(Moderate)		· · · · · · · · · · · · · · · · · · ·
28 1	(Moderate)	07 -		(Moderate)	NO L	PP AT THIS TIME
52 1	(Moderate)	13		(Moderate)		PLETED COMP.
	(Moderate)	27		(Moderate)	-	
	(Moderate)	37		(Low)	COMPAR'	TMENT #047
	(Moderate)	37	U	(LOW)	001111111	THERE HOTE
	(Stand	Risk Rating
		COMPAR	martara.	#01.0	37	2 (High)
		COMPAR	TMENT	#043 .		
COMPARTMENT	#A111	,			04	•
COMPARTMENT	7041	Stand		Rating	14	1 (Moderate)
Chand Diale	Data to a	13	5	•		
	Rating	55	3			
		06		(High)	COMPAR'	TMENT #048
57 5	(Extreme)	10		(High)		
46 3	. •	72	2	(High)	Stand	Risk Rating
51 3	(High)	04	1	(Moderate)	58	5 (Extreme)
	(High)	25	1	(Moderate)	01	3 (High)
60 3	(High)	26		(Moderate)	27	3 (High)
63 3	(High)	57		(Moderate)	35	3 (High)
67 3	(High)	08		(Low)	43	3 (High)
69 3	(High)		-	(50	3 (High)
42 2	(High)				04	2 (High)
43 2	(High)	COMPAR	тмгит	#01111	05	2 (High)
50 2	(High)	CO117 177/	**************************************	11 U T"F	12	2 (High)
62 2	(High)	C+ d	Diele	Datina	18	2 (High)
- 22 1	(Moderate)	Stand 48		Rating (Very High)	19	2 (High)
	(Moderate)				22	2 (High)
	(Moderate)	13		(High)	23	2 (High) 2 (High)
	(Moderate)	14		(High)		
	(Moderate)	19		(High)	26	2 (High)
	(Moderate)	21		(High)	39	2 (High)
68 1	(Moderate)	34	and the second second	(High)	52	2 (High)
		35	1	(Moderate)	55	2 (High)
	D	46	1	· /	06	1 (Moderate)
COMPARTMENT	#042	47	1	(,	07	1 (Moderate)
		58	1	(Moderate)	09	1 (Moderate)
	Rating				11	1 (Moderate)
33 4	, , , , , , , , , , , , , , , , , , , ,				16	1 (Moderate)
344	(Very High)				21	1 (Moderate)
18 3	(High)				31	1 (Moderate)
03 2	(High)				37	1 (Moderate)
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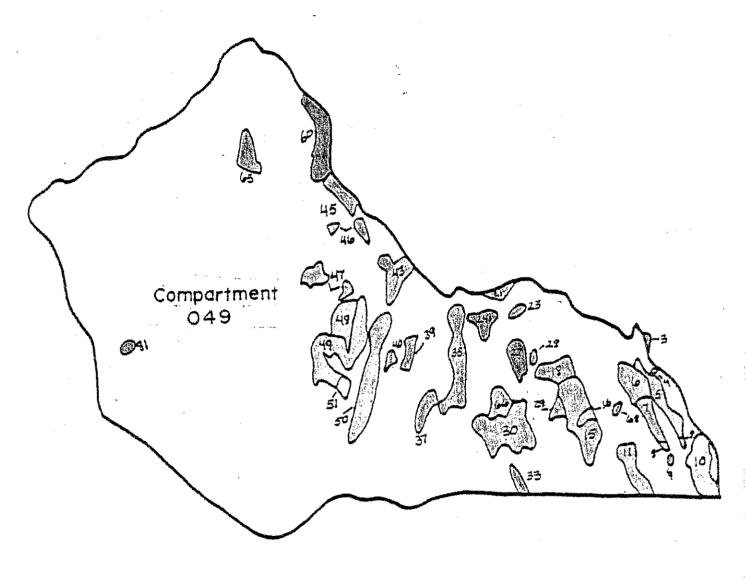
discount in the desired by		DIT 1/15K MCTITE (CDIT)
(COMPARTMENT #0.48)	COMPARTMENT #050	COMPARTMENT #052
Stand Risk Rating 40 1 (Moderate) 02 0 (Low) 08 0 (Low) 10 0 (Low)	Stand Risk Rating 08 3 (High) 13 2 (High) 16 2 (High) 20 2 (High) 21 2 (High)	Stand Risk Rating 07 5 (Extreme) 55 5 (Extreme) 08 4 (Very High) 34 4 (Very High) 50 4 (Very High)
COMPARTMENT #049 Stand Risk Rating 27 4 (Very High) 81 4 (Very High) 24 3 (High)	24 2 (High) 26 2 (High) 27 2 (High) 29 2 (High) 03 1 (Moderate) 05 1 (Moderate) 06 1 (Moderate)	68
60 3 (High) 04 2 (High) 09 2 (High) 11 2 (High) 18 2 (High) 23 2 (High) 28 2 (High) 30 2 (High)	11 1 (Moderate 12 1 (Moderate 22 1 (Moderate 23 1 (Moderate) 32 1 (Moderate) COMPARTMENT #051) 22 2 (High)) 30 2 (High)) 54 2 (High)
33 2 (High) 37 2 (High) 40 2 (High) 45 2 (High) 46 2 (High) 65 2 (High) 66 2 (High) 68 2 (High) 03 1 (Moderate) 05 1 (Moderate) 06 1 (Moderate)	Stand Risk Rating 52 5 (Extreme) 32 3 (High) 38 3 (High) 44 3 (High) 01 2 (High) 14 2 (High) 18 2 (High) 23 4 (High) 23 4 (High) 24 4 (High) 25 4 (High) 26 4 (High) 27 4 (High)	COMPARTMENT #053 Stand Risk Rating 12 3 (High) 29 2 (High) 01 1 (Moderate) COMPARTMENT #054
06	33 2 (High) 35 2 (High) 37 2 (High) 48 2 (High) 53 2 (High) 05 1 (Moderate) 23 1 (Moderate) 25 1 (Moderate) 31 1 (Moderate) 49 1 (Moderate) 56 1 (Moderate) 59 1 (Moderate) 59 0 (Low)	88 4 (Very High) 04 3 (High) 09 3 (High) 25 3 (High) 33 3 (High)
		80 3 (High) 91 3 (High) 10 2 (High)

				•				
	(COMPAR	TMENT	#054)	(COMPAR	TMENT	#056)	COMPAR	TMENT #059
	Stand	Risk	Rating	Stand	Risk	Rating	الد ساسات	· mful · muifuu
	13	2	(High)	60	2	(High)	Stand	Risk Rating 5 (Extreme)
	17	2	(High)	62	2	(High)	06	•
	55	2	(High)	63	2	(High)	13	5 (Extreme)
	57	2	(High)	65	2	(High)	28	5 (Extreme)
	61	2	(High)	15	1		59	5 (Extreme)
	71	2	(High)	19	1	(Moderate)	61	5 (Extreme)
٠,	74	2	(High)	22	1	(Moderate)	64	5 (Extreme)
	77	2	(High)			(Moderate)	17	4 (Very High)
	83	2	(High)	26	1	(Moderate)	62	4 (Very High)
	85	2	(High)	33	1	(Moderate)	66	4 (Very High)
	20	1	_	44	1	(Moderate)	15	3 (High)
	39		(Moderate)	56	1	(Moderate)	18	3 (High)
	63	1	(Moderate)	61	1	(Moderate)	20	3 (High)
		1	(Moderate)	64	1	(Moderatte)	24	3 (High)
	64 72	1	(Moderate)	66	1	(Moderate)	27	3 (High)
	73 75	1	(Moderate)	67	1	(Moderate)	36	3 (High)
	75	1	(Moderate)	68	0	(Low)	71	3 (High)
	79	1	(Moderate)				02	2 (High)
	81	1	(Moderate)	COMPAR	TMENT	#057	03	2 (High)
							11	2 (High)
	001/747			Stand	Risk	Rating	30	2 (High)
	COMPART	IMENT	#U55	23	7	(Very High)	38	2 (High)
				45	1	(Very High)	46	2 (High)
	Stand		Rating	32	3	(High)	51	2 (High)
	10	5	(Extreme)	03	2	(High)	54	2 (High)
	01		(High)	24	2	(High)	56	2 (High)
	14	3	(High)	48	. 2	(Hiġh)	58	2 (High)
	08		(High)	01	1	(Moderate)	60	2 (High)
	12	2	(High)	02	1	(Moderate)	69	2 (High)
	16	2	(High)	05	1	(Moderate)	01	1 (Moderate)
	11	1	(Moderate)	06	1	(Moderate)	44	1 (Moderate)
				08	1	(Moderate)		1 (110 201 200)
				09	1	(Moderate)		
	COMPART	MENT	#056	10	1	(Moderate)	COMP A R'	TMENT #060
				11	1	(Moderate)		1130312 11 0 0 0
		Risk	Rating	13	1	(Moderate)	Stand	Risk Rating
	20		(Very High)	15	1	(Moderate)	40	4 (Very High)
	12	3	(High)	18	1	(Moderate)	03	3 (High)
	38	3	(High)	19	1	(Moderate)	04	3 (High)
	43	3	(High)	25	1	(Moderate)	26	3 (High)
	47	3	(High)	31	1	(Moderate)	27	3 (High)
	01	2	(High)	51	1	(Moderate)	30	3 (High)
	03	2	(High)	66	1	(Moderate)	35	3 (High)
	06	2	(High)				38	3 (High)
	10	2	(High)				46	3 (High)
	13	2	(High)	COMPART	TMENT	#058	54	3 (High)
	28		(High)				71	3 (High)
	32		(High)	Stand	Risk	Rating	73	3 (High)
	34		(High)	23		(High)	31	2 (High)
	48		(High)	24		(High)	58	2 (High)
	53		(High)	•			61	2 (High)
	54		(High)				64	2 (High)
	58		(High)			•	82	2 (High)
			ont'd				QΖ	2 (nign)

(COMPAR	TMENT	#060)	(COMPAR	TMENT	#062)	(COMPAR	TMENT	7 #063)
Stand	Risk	Rating	Stand	Rick	Rating			
85	2	(High)	12	2	(High)	Stand		Rating
07	1	(Moderate)	13	2	(High)	05	1	(Moderate)
08	1	(Moderate)	17	2	(High)	06	1	(Moderate)
24	1	(Moderate)	25	2		12	1	(Moderate)
34	1	(Moderate)	25 28		(High)	14	1	(Moderate)
36	1	(Moderate)		2	(High)	23	1	(Moderate)
49	1	(Moderate)	29	2	(High)	27	-1	(Moderate)
70	1	(Moderate)	38	2	(High)	35	. 1	(Moderate)
74	Ô	(Low)	46 55	2	(High)	36	1	(Moderate)
, ,	Ŭ	(LOW)	55 60	2	(High)	38	1	(Moderate)
			63 67	2	(High)	t † 11	1	(Moderate)
COMPAR	титит	# 061	67 60	2	(High)	46	1	(Moderate)
COLLEXIV	T 1.177714 T	<u> </u>	68	2	(High)	76	1	(Moderate)
Stand	Pick	Rating	71	2	(High)	79	1	(Moderate)
40	5	(Extreme)	78	2	(High)	19	0	(Low)
27	3	(High)	07	.1	(Moderate)	- 21	0	(Low)
48	3	(High)	10	1	(Moderate)	39	0	(Low)
51	3	(High)	41	1	(Moderate)			
. 08	2	-	44	1	(Moderate)			
15	2	(High) (High)	62	1	(Moderate)	COMPAR	TMENT	T #064
16	2		73	1	(Moderate)			······································
19	2	(High)	20	0	(Low)	Stand	Risk	Rating
24	2	(High)	60	0	(Low)	44	5	(Extreme)
29		(High)				25	4	(Very High)
32	2	(High)				47	4	(Very High)
32 53	. 2	(High)	COMPAR	TMENT	#063	18	3	(High)
04	2	(High)				42	3	(High)
	1	(Moderate)	Stand		Rating	10	2	(High)
07 17	1	(Moderate)	13	.3	(High)	28	2	(High)
17	1	(Moderate)	28	3	(High)	43	2	(High)
23	1	(Moderate)	48	3	(High)	02	1	(Moderate)
36	1	(Moderate)	56	3	(High)	05	1	(Moderate)
41	1	(Moderate)	66	3	(High)	07	1	(Moderate)
55	U	(Low)	83	3	(High)	08	1	(Moderate)
			80	2	(High)	09		(Moderate)
COMT A D	מיו <i>א</i> מדי <i>א</i> נמוז	4000	-10		(High)	12	1	(Moderate)
COMPAR	TMEMI	#002	17		(High)	17	1	(Moderate)
C+ 3	D2 -1-	D-+3	18		(High)	20	1	(Moderate)
Stand		Rating	20	2	(High)	23	1	(Moderate)
15	5	(Extreme)	24	2	(High)	29		(Moderate)
06		(Very High)	25	2	(High)	33	1	(Moderate)
19		(Very High)	26	2	(High)	37	1	(Moderate)
26 52		(Very High)	30	2	(High)	38	1	(Moderate)
		(Very High)	. 33	2	(High)	41	1	(Moderate)
66 05		(Very High)	50	2	(High)	50		(Moderate)
05 11	3	(High)	52	2	(High)	01		(Low)
11		(High)	64	2	(High)	03		(Low)
24	3	(High)	65		(High)	21		(Low)
69 00	3	(High)	84	2	(High)	31		(Low)
08	2	(High)	85	2	(High)	45		(Low)
09		(High)	04	1	(Moderate)			•
	cc	ont'd			cont'd			

COMPARTMENT #065	(COMPAR	TMENT	#072)	COMPAR	TMENT #074
NO LPP IN COMP.	Stand	Risk	Rating	Stand	Risk Rating
	04		(High)	31	5 (Extreme)
•	05	2	(High)	60	5 (Extreme)
COMPARTMENT #066	06	2	(High)	46	4 (Very High)
	- 07	2	(High)	37	3 (High)
NO LPP STANDS	13	2	(High)	41	3 (High)
RECONED	17	2	(High)	53	3 (High)
	18	2	(High)	54	3 (High)
	21		(High)	56	3 (High)
COMPARTMENT #067	23	2	(High)	68	3 (High)
	26		(High)	69	3 (High)
Stand Risk Rating	32		(High)	81	3 (High)
01 3 (High)	33		(High)	83	3 (High)
18 3 (High)	41		(High)	84	3 (High)
13 2 (High)	01	1	(Moderate)	12	2 (High)
06 1 (Moderate)	03	1	(Moderate)	23	2 (High)
11 1 (Moderate)	25	1		. 26	2 (High)
	- 35	1	•	30	2 (High)
COMPARENTARE #0.00	48		(Moderate)	45	2 (High)
COMPARTMENT #068	. 54		(Moderate)	52	2 (High)
NO IDD DECOMED AS	47	U	(Low)	55	2 (High)
NO LPP RECONED AT THIS TIME				63	2 (High)
TUTO LIME	COMPAB	መንፈም እተጠ	4022	66	2 (High)
	COMPAR	TMENT	#0/3	67	2 (High)
COMPARTMENT #069	Stand	Di ala	Domination and	70	2 (High)
CONTINUENT FOOS	15		Rating (Vone Wigh)	78	2 (High)
NO LPP RECONED AT	28	4. 4	(Very High) (Very High)	89	2 (High)
THIS TIME.	26 06		(High)	93	2 (High)
4 1144 6	18		(High)	95 01:	2 (High)
	11		(High)	04 06	1 (Moderate) 1 (Moderate)
COMPARTMENT #070	14		(High)	14	1 (Moderate)
	16		(High)	17	1 (Moderate)
NO LPP RECONED AT	17		(High)	27	1 (Moderate)
THIS TIME.	27		(High)	57	1 (Moderate)
	29		(High)	58	1 (Moderate)
	12		(Moderate)	59	1 (Moderate)
COMPARTMENT #071	25		(Moderate)	61	1 (Moderate)
	26	1.	(Moderate)	72	1 (Moderate)
NO LPP RECONED AT	30		(Moderate)	73	1 (Moderate)
THIS TIME.	31	1	(Moderate)	75	1 (Moderate)
	34	1	(Moderate)	76	1 (Moderate)
COMPARTMENT #072	35	1	(Moderate)	79	1 (Moderate)
				85	1 (Moderate)
Stand Risk Rating				87	1 (Moderate)
28 5 (Extreme)				88	1 (Moderate)
40 5 (Extreme)				94	1 (Moderate)
15 3 (High)				97	1 (Moderate)
20 _ 3 (High)				09	0 (Low)
22 3 (High)				13	0 (Low)
27 3 (High)				16	.0 (Low)
cont'd				62	0 (Low)

COMPAR	TMENT #075	(COMPARTMENT #076)	(COMPARTMENT #080)
Stand	Risk Rating	Stand Risk Rating	Stand Risk Rating
07	3 (High)	17 1 (Moderate)	20 1 (Moderate)
08	3 (High)	21 1 (Moderate)	21 1 (Moderate)
10	3 (High)	24 1 (Moderate)	52 1 (Moderate)
23	3 (High)	26 1 (Moderate)	· · · · · · · · · · · · · · · · · · ·
02	2 (High)	31 1 (Moderate)	56 1 (Moderate)
09	2 (High)	34 1 (Moderate)	04 0 (Low)
19	2 (High)		•
24	2 (High)	70 1 (Moderate)	
26	2 (High)	76 1 (Moderate)	
29	2 (High)	78 1 (Moderate)	
		82 1 (Moderate)	
31	2 (High)	92 1 (Moderate)	
11	1 (Modera		
15	1 (Modera		•
20	1 (Modera		:
21	1 (Modera	NO DIT DIMINDO IN COMI :	•
22	1 (Modera		
28	1 (Modera	te)	
18	0 (Low)		!
33	0 (Low)	COMPARTMENT #078	1
	,	COM ANTHUM 1 PO 78	#* .:
		Stand Risk Rating) ()
COMPAR	TMENT #076	01 1 (Moderate)	
Stand	Risk Rating	02 1 (Moderate)	
87	5 (Extrem	04 1 (Moderate)	
11	4 (Very E	·	•
20	4 (Very H	- · · · ·	:
	•	COMPARTMENT #079	:
07	3 (High)		
18	3 (High)	NO LPP STANDS RECONED	
22	3 (High)	AT THIS TIME.	
25	3 (High)		•
32	3 (High)		
36 .	3 (High)	COMPARTMENT #080	
41	3 (High)		•
44	3 (High)	Stand Risk Rating	•
46	3 (High)	31 4 (Very High)	
49	3 (High)	44 4 (Very High)	
89	3 (High)	46 3 (High)	
90	3 (High)	40 0 (III-7)	
91	3 (High)	48 3 (High)	
28	2 (High)	51 3 (High)	
45	2 (High)	53 3 (High)	
4 3	2 (High)	15 2 (High)	
		16 2 (High)	
51	2 (High)	23 2 (High)	
53	2 (High)	24 2 (High)	
54	2 (High)	39 2 (High)	
55	2 (High)	42 2 (High)	
58	2 (High)	49 2 (High)	
61	2 (High)	01 1 (Moderate)	
16	1 (Modera	te) 02 1 (Moderate)	
	cont'd		
		cont a	



Risk Rating



Very High



High



Moderate

Figure 1.--Lodgepole pine stands risk rated for potential mountain pine beetle damage. Compartment 049, Cassia Division, Twin Falls Ranger District, Sawtooth National Forest.